



CAU 3743
#8

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re:Appn. Ser. No. 09/737,117

732

Art Unit 3743

Filed 12/7/00

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Inventors Mok et al

Atty.Dkt. YOR920000399US1

For: INCREASED EFFICIENCY IN LIQUID AND GASSEOUS PLANAR DEVICE
COOLING TECHNOLOGY

Response to 8/20/02 Office Communication

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Assistant Commissioner for Patents
U.S. Patent and Trademark Office
Washington, D.C. 20231

Sir:

In response to the 8/20/02 Office Communication, pointing out that a marked up copy of the amended claims in the 6/12/02 Response to the 3/12/02 Office Action is missing(Copy of Page 2 of the 8/20/02 Communication with specific item marked is attached); the marked up copy of the six amended claims 3,4,7,8,11 and 16, is provided herewith, with any material to be removed crosshatched and any material to be added underlined.

Marked up Claim 3 as amended

1 3. The improvement of claim 11 17 wherein said component in contact with said surface
2 area has at least one serpentine shaped passageway.

Marked up Claim 4 as amended

1 4. The improvement of claim 3 wherein said serpentine passageway is a plurality of
2 said passageways resulting from top and bottom plates each with a protruding
3 interdigitating pathway configuration.

Marked up Claim 7 as amended

1 7. The improvement of claim 4 where said component includes an embedded pump at
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2 a site connected to said at least one serpentine pathway.

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Marked up Claim 8 as amended

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1 8. The improvement of claim ~~11~~ 7 where said component includes an embedded pump at
2 site joining four serpentine pathways at a pump site.

Marked up Claim 11 as amended

1 11 The improvement of claim ~~10~~ 18 wherein said transfer of said heat in said
2 liquid medium to a gaseous medium includes said gaseous medium conveying said
3 transferred heat ~~and radiated heat~~ from said apparatus to an ambient outside said
4 apparatus.

Marked up Claim 16 as amended

1 16. The process of claim ~~11~~ 20 including in said providing, a radiation to liquid,
2 heat transfer component, positioned in contact with said area on said surface, step,
3 the further providing of multiple serpentine liquid passageways in said component.

Respectfully submitted,

Alvin J. Riddles 8/26/02
Alvin J. Riddles

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It is hereby certified that this document is being deposited in First Class Mail addressed to
Assistant Commissioner for Patents, U.S. Patent and Trademark Office, Washington,D.C. 20231
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Alvin J. Riddles 8/26/02
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Response to Amendment

The amendment to the claims filed on June 17, 2002 does not comply with the requirements of 37 CFR 1.121(c) because the amendment lacks another version of the rewritten claim, on one or more pages separate from the amendment, marked up to show all the changes relative to the previous version of that claim. Amendments to the claims filed after March 1, 2001 must comply with 37 CFR 1.121(c) which states:

(c) Claims.

- (1) Amendment by rewriting, directions to cancel or add: Amendments to a claim must be made by rewriting such claim with all changes (e.g., additions, deletions, modifications) included. The rewriting of a claim (with the same number) will be construed as directing the cancellation of the previous version of that claim. A claim may also be canceled by an instruction.
- (i) A rewritten or newly added claim must be in clean form, that is, without markings to indicate the changes that have been made. A parenthetical expression should follow the claim number indicating the status of the claim as amended or newly added (e.g., "amended," "twice amended," or "new").
- (ii) *If a claim is amended by rewriting such claim with the same number, the amendment must be accompanied by another version of the rewritten claim, on one or more pages separate from the amendment, marked up to show all the changes relative to the previous version of that claim.* A parenthetical expression should follow the claim number indicating the status of the claim, e.g., "amended," "twice amended," etc. The parenthetical expression "amended," "twice amended," etc. should be the same for both the clean version of the claim under paragraph (c)(1)(i) of this section and the marked up version under this paragraph. The changes may be shown by brackets (for deleted matter) or underlining (for added matter), or by any equivalent marking system. A marked up version does not have to be supplied for an added claim or a canceled claim as it is sufficient to state that a particular claim has been added, or canceled.
- (2) A claim canceled by amendment (deleted in its entirety) may be reinstated only by a subsequent amendment presenting the claim as a new claim with a new claim number.

→ Specifically, the marked up copy of the amended claims is missing.

Since the reply filed on April 24, 2002 appears to be *bona fide*, applicant is given a TIME PERIOD of **ONE (1) MONTH** or **THIRTY (30) DAYS** from the mailing date of this notice, whichever is longer, within which to submit an amendment in compliance with 37 CFR 1.121 in order to avoid abandonment. EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).